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1201 New York Avenue, N.W., Suite 1000
Washington, D.C. 20005-3917
(202) 962-4800, Fax (202) 962-8300
www.venable.com

OFFICES IN

WASHINGTON, D.C.
MARYLAND
VIRGINIA

Robert Kinberg
(202) 962 4051
rkinberg@venable.com

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VENABLE
ATTORNEYS AT LAW

March 24, 1999

Assistant Commissioner for Patents
Washington, D.C. 20231

Re: New Patent Application
Inventor(s): Michael KRIEGER
Attorney Docket: 32405 147477

Sir:

Please find attached hereto an application for patent which includes:

Specification, Claims, Declaration, Power of Attorney.

Drawings: 1 Sheet (Figures 1-6)

Verified Statement Claiming Small Entity Status.

Fee (see formula below) check enclosed.

Basic Fee \$380/760..... \$ 380.00

Additional Fees:

Total number of claims in excess of 20 times \$11/22 \$ 0.00

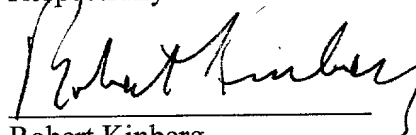
Number of independent claims *
in excess of 3: times \$39/78..... \$ 0.00

An assignment is likewise enclosed; Recording Fee \$40. \$ 40.00

TOTAL FEES FOR THE ABOVE APPLICATION... \$ 420.00

In the event there is attached hereto no check, or a check for an insufficient amount,
please charge the fee to our Account No. 19-3700 and notify us accordingly.

Respectfully submitted



Robert Kinberg
Registration No. 26,924

RK:boa

Applicant or Patentee: Michael KRIEGER

Attorney's

Serial or Patent No.: To Be AssignedDocket No.: 32405-147477

Filed or Issued:

For: PORTABLE LIGHT WITH STANDVERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(e)) - SMALL BUSINESS CONCERN

I hereby declare that I am

☐ the owner of the small business concern identified below;☒ an official of the small business concern empowered to act on behalf of the concern identified below;NAME OF CONCERN VECTOR PRODUCTS, INC.ADDRESS OF CONCERN 3003 Greene Street, Hollywood, Florida 33020

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 12 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other either directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled

PORTABLE LIGHT WITH STANDby inventor(s) Michael KRIEGER

described in

☒ the specification filed herewith☐ application serial no. _____,

filed _____

☐ patent no. _____,

issued _____

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(c) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). *NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

NAME _____

ADDRESS _____

☐ INDIVIDUAL☐ SMALL BUSINESS CONCERN☐ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b)) I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING Michael KriegerTITLE OF PERSON OTHER THAN OWNER PresidentADDRESS OF PERSON SIGNING 34 West Dillido Drive, Miami, Florida 33139

SIGNATURE _____

DATE

3-24-99

APPLICATION FOR UNITED STATES LETTER PATENT

INVENTOR(S): Michael Krieger

TITLE: PORTABLE LIGHT WITH STAND

ATTORNEYS AND CORRESPONDENCE ADDRESS:

Venable, Baetjer and Howard, LLP
P.O. Box 34385
Washington, D.C. 20043-9998
Telephone: 202-962-4800
Telefax: 202-962-8300

ATTORNEY REFERENCE: 32405-147477

BACKGROUND OF THE INVENTION

The invention relates to a portable, handheld light, and more specifically to a multi-function portable light which can be utilized as a handheld flash light and which can be additionally utilized as a lamp for lighting a work area without being hand held by the user.

Portable lights employing high intensity lamps powered, for example by a 12 volt or 6 volt battery are well known and are widely commercially available. Such portable lights are often housed in a cylindrical or boxy type housing and it is common to attached a hand grip to the housing for easily directing the light beam.

One inconvenience in utilizing such portable lights is that when the user directs the light beam in a forward direction to light up more distant stretches of a path, the area of the path immediately in front of the footsteps of the user remains dark, presenting the possibility of stumbling over an unseen object and/or irregularity in the pathway. If the user directs the light beam to the immediate area in front of himself or herself, then the more distant areas of the pathway remain dark. Accordingly, the user of the portable light is forced to continue switching the direction of the light beam so that both the immediate area in front of the user as well as the more

distant areas can be illuminated. It would be desirable if the user did not have to continue switching directions of the light beam and still have near and distant areas illuminated.

Additionally, it is often desirable to utilize a portable light to illuminate a work area without having to hold the portable light to stabilize it. Furthermore, it is often not necessary to utilize the full candle power of the high intensity lamp for illuminating a relatively close work area. Therefore, it would be desirable to provide a mechanism for stabilizing the portable light on a surface and to utilize a lower intensity lamp beam in order to conserve battery power.

SUMMARY OF THE INVENTION

It is an object of the invention to provide a portable light source which includes both a high intensity lamp for illuminating distant areas and a lower intensity lamp for lighting a close in area, for example a pathway immediately in front of the holder of the portable light source.

It is a further object of the invention to provide a portable light source which includes a deployable stand for stabilizing the light source on a surface so that the portable light source can be used to illuminate a work area without being held by the user.

The above and other objects are accomplished according to the invention by the provision of a portable light which includes first and second d.c. lamps; a first housing portion having a longitudinal axis and enclosing the first lamp for projecting a first light beam in a direction of the longitudinal axis of the first housing portion, the first housing portion having an exterior surface contour and including a compartment containing electrical means for connecting to a d.c. power supply connectable in circuit with the first lamp; a second housing portion having a shape of a hand grip and extending from a first side of the first housing portion in a direction transverse to the longitudinal axis of the first housing portion, the second housing portion enclosing the second lamp connectable in circuit with the electrical means for projecting a second light beam in a direction forming an angle with the longitudinal axis of the first housing portion; and a support pivotally connected to the first housing portion and being pivotable between a closed position in which the support has a shape which generally conforms to the contour of the exterior surface of the first housing portion and an open position in which the support forms a stand extending from an opposite side of the first housing portion from that of the first side of the first housing portion for stabilizing the portable light on a

surface so that at least one of the first and second lamps can be directed towards a work area.

According to a further feature of the invention, the first lamp has a higher intensity relative to the second lamp. Desirably, the second portion comprising the hand grip includes a free end and the second lamp is arranged near the free end of the hand grip. Preferably the first and second lamps can be independently controlled to switch on and off so that they can be used simultaneously or independent of one another.

According to preferred embodiment of the invention the support includes a first element which is Y-shaped, with the single leg of the Y being pivotally connected to the first housing portion and the two legs at the other end of the Y adapted to rest on the surface when the element is pivoted away from the first housing portion. Desirably, the first housing portion includes a shoulder which presents a stop for limiting the pivoting angle of the first element of the support. In a more preferred embodiment of the invention the support includes a second element that is pivotally connected to the first housing portion for presenting a third leg adapted to rest on a surface when pivoted away from the first housing portion so as to present a three point stand when both the first and second elements of the support are deployed.

Other features, advantages and benefits of the invention will become apparent from the following detailed description when considered in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a perspective view of a portable light according to the invention.

Figure 2 shows another perspective view of the portable light according to the invention and showing a three legged support deployed for forming a stand for the portable light.

Figure 3 is a further perspective view of the portable light according to the invention showing one of the elements of the support partially deployed.

Figure 4 is an elevational view of the "Y" shaped element for use in the deployable support illustrated in Figures 2 and 3.

Figure 5 is a right side elevational view of the portable light illustrated in Figure 1.

Figure 6 is a back elevation of the portable light shown in Figure 1.

DETAILED DESCRIPTION OF THE INVENTION

Referring to Figure 1, there is shown a portable light according to the invention which includes a first housing

portion 12 enclosing a high intensity lamp 14 and a d.c. power source (not shown). Figure 6 shows a back elevation of the light source of Figure 1 wherein there is shown a cover 15 for a battery compartment in which there is disposed electrical contacts (not shown) for connection to a conventional 12 volt battery (not shown) housed in the compartment. Alternatively, the housing is adapted to store a 12 volt power cord with a cigarette type plug (not shown) that is itself connectable to a 12 volt battery, for example of an automobile through the cigarette lighter. Referring again to Figure 1, housing 10 additionally includes a second housing portion 16 in the form of a hand grip that extends away from first housing portion 12 and which has a free end 18 in which there is arranged a second, lower intensity lamp 20. High intensity lamp 14 projects a beam generally along the longitudinal access 22 of first housing portion 12. Lower intensity lamp 20 projects a beam along a direction which is at a angle to longitudinal access 22 such that when the user of the portable lamp grasps the hand grip of second housing portion 16 and projects the beam of high intensity lamp 14 in a forward direction, the beam of the lower intensity lamp 20 will illuminate a pathway immediately in front of the foot steps of the user. Accordingly, the high intensity lamp 14 is utilized to illuminate more distant objects in front

of the user while the lower intensity of lamp 20 is utilized to illuminate the foot path immediately in front of the user so that the user does not have to change the direction of the high intensity lamp in order to illuminate the foot path immediately in front of himself or herself.

High intensity lamp 14 is connected in a series circuit (not shown) with either the battery (not shown) enclosed within first housing portion 12 or the 12 volt power cord which itself is connectable to a battery. Lamp 14 is controllable on and off by a push button switch 24 which can be held in a depressed (on) position by a pin 26 (Fig. 5) which removeably engages push button switch 24 for holding it in the depressed position in a manner which is well known in the art.

The portable light according to the invention additionally includes a support 28 which is located on a side of first housing portion 12 opposite from that of hand grip 16. As shown in Figure 2, support 28 includes a first Y-shaped element 30 and a second element 32, both of which are pivotally connected to first housing connection 12. Figure 1 shows support 28 in a closed position whereby element 30 and element 32 are each shaped to follow the contour of the exterior surface of first housing portion 12. Figure 2 shows support 28 in a deployed position whereby Y-shaped element 30 and element 32 are pivoted

away from the housing to present essentially a three point stand for the portable light. Element 32 also functions as a hanging hook for the handheld light. Figure 3 shows Y-shaped element 30 in a partially deployed position. In a fully deployed position, Y-shaped element 30 rests against a shoulder 34 as shown in Figure 2 presented, for example, by a bezel 36 surrounding lamp 14. Figure 4 illustrates Y-shaped element 30 and shows pins 38 projecting laterally from the single leg end 40 of Y shaped element 30. Pins 38 engage corresponding recesses (not shown) in first housing portion 12 to allow Y shape element 30 to be pivoted between closed and open positions.

Element 32 is in the form of a partial loop and has projections 42 (see Figure 3) which engage corresponding recesses in first housing portion 12 to allow element 32 to pivot between open and closed positions. Additionally, first housing portion 12 presents shoulders 44 against which element 32 rests in its fully deployed position to thereby limit the pivoting angle of element 32. Element 32 also functions as a hanging hook for the handheld light.

A push button switch 46 located on the rear side of hand grip 16 is connected in a series circuit (not shown) with low intensity lamp 20 and the battery (not shown) or 12 volt power cord (not shown) enclosed within first housing portion 12.

Accordingly, high intensity lamp 14 which is controlled by switch 24 and low intensity lamp 20 controlled by push button switch 46, can be independently controlled to be on and off.

In use, the portable light according to the invention can be utilized as a traditional flash light. The high intensity lamp can be used, for example, for illuminating distant portions of a pathway as well and the low intensity beam can be used simultaneously for illuminating the path immediately in front of the user. Additionally, the portable light according to the invention can be utilize to illuminate a work space by deploying the support 28 so that the portable light rest on a three point Stand whereby either one or both of the lamps may be turned on to illuminate the workspace. Typically, with a close-in workspace, only the low intensity lamp need be turned on to conserve battery power.

The invention has been described in detail with respect to preferred embodiments, and it will now be apparent from the foregoing to those skilled in the art, that changes and modifications may be made without departing from the invention in it's broader aspects, and the invention, therefore, as defined in the appended claims, is intended to cover all such changes and modifications as fall within the true spirit of the invention.

WHAT IS CLAIMED IS:

1. A portable light, comprising:

first and second d.c. lamps;

a first housing portion having a longitudinal axis and enclosing the first lamp for projecting a first light beam in a direction of the longitudinal axis of the first housing portion, the first housing portion having an exterior surface contour and including a compartment containing electrical means for connection to a d.c. power supply connectable in circuit with the first lamp;

a second housing portion having a shape of a hand grip and extending from a first side of the first housing portion in a direction transverse to the longitudinal axis of the first housing portion, the second housing portion enclosing the second lamp connectable in circuit with the electrical means for projecting a second light beam in a direction forming an angle with the longitudinal axis of the first housing portion; and

a support pivotally connected to the first housing portion and being pivotable between a closed position in which the support has a shape which generally conforms to the contour of the exterior surface of the first housing portion and an open position in which the support forms a stand extending from an

opposite side of the first housing portion from that of the first side of the first housing portion for stabilizing the portable light source on a surface so that at least one of the first and second lamps can be directed toward a work area.

2. The portable light source according to claim 1, wherein the first lamp has a higher intensity relative to the second lamp.

3. The portable light source according to claim 1, wherein the second housing portion has a free end and the second lamp is arranged in second housing portion near the free end.

4. The portable light source according to claim 3, and further including switches for independently switching the first and second lamps on and off.

5. The portable light source according to claim 1, wherein the support includes a first element having a shape of a Y, with the single leg at one end of the Y pivotally connected to the first housing portion and the two legs at the other end of the Y adapted to rest on a surface when the first element is pivoted away from the first housing portion.

6. The portable light source according to claim 5, wherein the first housing portion includes a first shoulder which presents a stop for limiting a pivoting angle of the first element of the support.

7. The portable light source according to claim 5, wherein the support includes a second element pivotally connected to the first housing portion for presenting a third leg adapted to rest on a surface when pivoted away from the first housing portion.

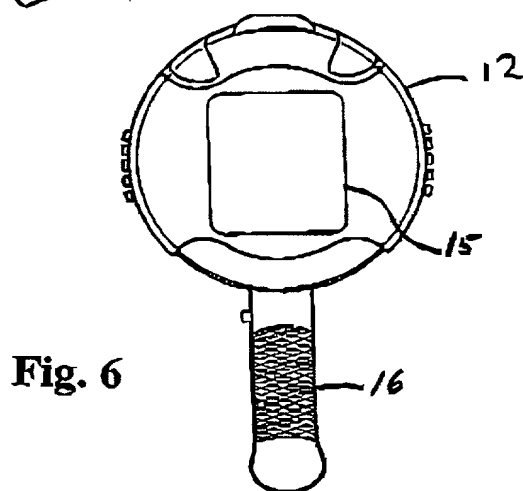
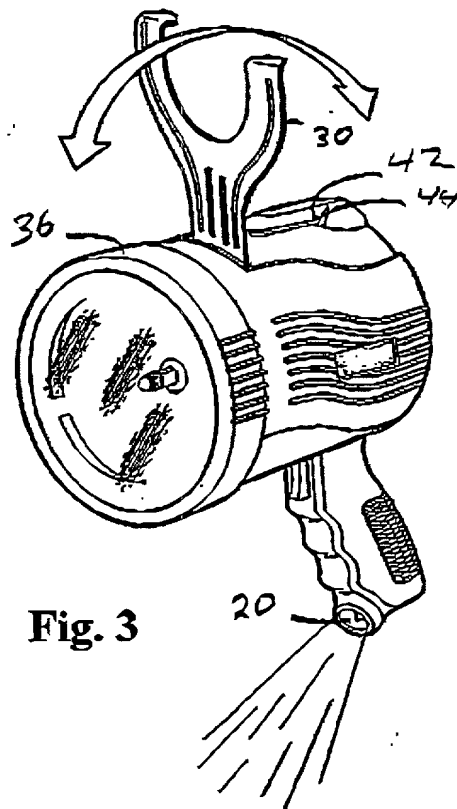
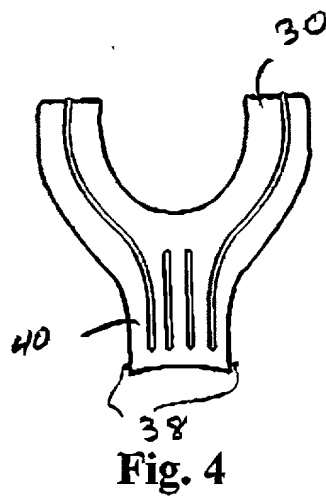
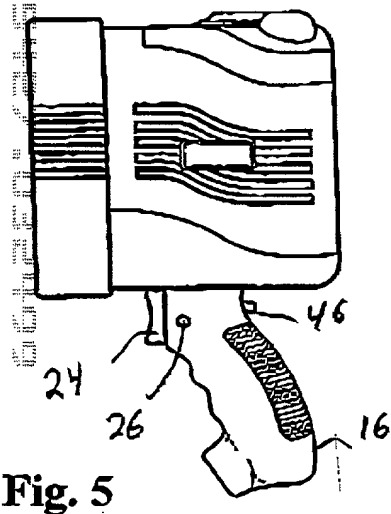
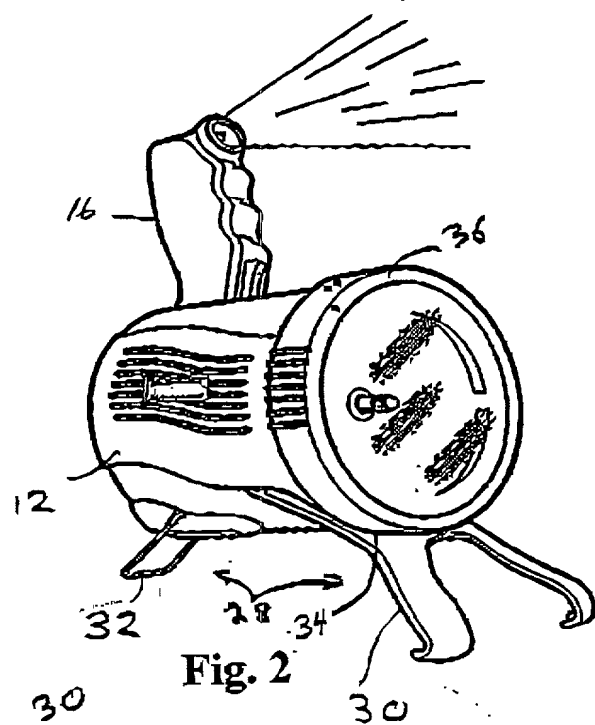
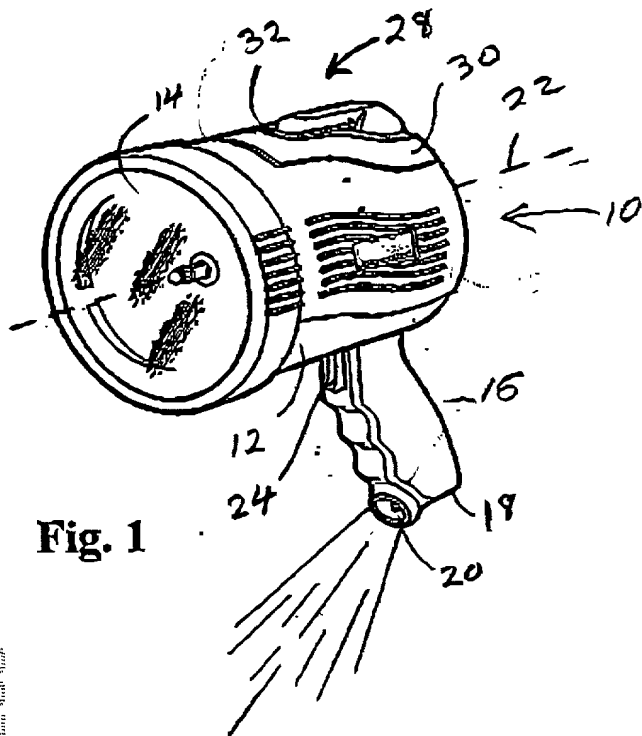
8. The portable light source according to claim 7, wherein the first housing portion includes a second shoulder which presents a second stop for limiting a pivoting angle of the second element of the support.

9. The portable light source according to claim 1, wherein the compartment is adapted to receive a battery.

10. The portable light source according to claim 1, wherein the compartment is adapted to receive a d.c. power cord.

ABSTRACT OF THE DISCLOSURE

A portable light includes first and second d.c. lamps. A first housing portion has longitudinal access and encloses the first lamp while projecting a first light beam in a direction of longitudinal access. The first housing portion has a exterior surface contour and includes a compartment containing an electrical device connectable to a d.c. power supply connectable in circuit with the first lamp. A second housing portion is the shape of a hand grip and extends from first side of the first housing portion in a direction transversed to the longitudinal access to the first housing portion. The second housing portion encloses the second lamp which is connectable in circuit with the electrical device for projecting a second light beam in the direction forming at an angle with the longitudinal access of the first housing portion. A support is pivotally connected to the first housing portion and is pivotable between a closed position in which the support has a shape which generally conforms to the contour of the exterior surface of the first housing portion and an open position in which the support forms a stand extending from an opposite side of the first housing portion from that of the first side of the first housing portion for stabilizing the portable light source on a surface so that one of the first and second lamps can be directed to a work area.



DECLARATION FOR UNITED STATES PATENT APPLICATION,
POWER OF ATTORNEY, DESIGNATION OF CORRESPONDENCE ADDRESS

Attorney Docket
32405-147477

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

PORTABLE LIGHT WITH STAND

the specification of which

☒ is attached hereto.

☐ was filed on _____ as Application No. _____
and was amended on _____ [if applicable].

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: George H. Spencer (Reg. No. 18,038), Norman N. Kunitz (Reg. No. 20,586), Robert J. Frank (Reg. No. 19,112), Gabor J. Kelemen (Reg. No. 21,016), Robert Kinberg (Reg. No. 26,924), John W. Schneller (Reg. No. 26,031), Ashley J. Wells (Reg. No. 29,847), 1201 New York Ave., N.W., Suite 1000, Washington, D.C. 20005-3917, Telephone: (202) 962-4800, Telefax: (202) 962-8300. Address all correspondence to VENABLE, P.O. Box 34385, Washington, D.C. 20043-9998.

The undersigned hereby authorizes the U.S. attorneys named herein to accept and follow instructions from the undersigned's assignee, if any, and/or, if the undersigned is not a resident of the United States, the undersigned's domestic attorney, patent attorney or patent agent, as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the undersigned. In the event of a change in the person(s) from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the undersigned.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature: Michael Krieger Date: 3-24-99, 1999.

Sole Inventor: Michael Krieger

Citizenship: United States

Residence and Post Office Address: 34 West Dildo Drive, Miami Beach, Florida 33139